

PRESS RELEASE

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NCR ANNOUNCES SEVEN-LEVEL NCR SYSTEM 3000;
RELEASES SIX MODELS IN NEW FAMILY

London, September 18, 1990 - NCR Limited today announced the System 3000, a seven-level family of general purpose, scalable, microprocessor-based computer systems that span a performance range of from 7.5 MIPS to more than 100,000 MIPS. Six models in three of the levels were released, including the multiprocessor NCR 3450 and 3550 systems.

Describing the announcement as the most significant product introduction in NCR's 106-year history, NCR Chairman and Managing Director Rex M Fleet, said, "The NCR System 3000 opens entirely new market opportunities to us. It gives us the capability of spanning the breadth of our customers' requirements, from data capture to complex information processing, to meet the end-to-end needs of any enterprise, no matter how large."

Mike Keville, Divisional Director, Product Marketing, said, "The system 3000 provides the broadest range of compatibility, performance, and flexibility and the best price performance in the industry."

NCR System 3000 users can deploy a range of computer power where and when it's needed. They can run more than 35,000 software applications on NCR system 3000 computers under industry standard operating systems, UNIX System V.4, SCO UNIX, OS/2 and MS DOS, and redeploy hardware and components as requirements change.

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SEVEN LEVELS OF NCR SYSTEM 3000

The NCR System 3000 is composed of seven levels. They will range from mobile computers in the field, desktop computers, workgroup Servers up through the most powerful enterprise-wide computers.

- Level 3100 models will be easy-to-use mobile and portable computers, designed to bring 'hands-on' computing to where the work is;
- Level 3200 models will be entry-level desktop computers with a broad performance range configurable into a space-saving footprint;
- Level 3300 models are powerful desktop systems with a wide range of performance options and broad configurability in a footprint suitable for office environments;
- Level 3400 models are the entry into scalable multiprocessor servers utilising tightly-coupled microprocessor architecture providing the best price/performance in the industry;
- Level 3500 models offer mainframe-class reliability, data integrity, configurability and performance through scalable, symmetric multiprocessors;
- Level 3600 models will be the new price/performance successors to expensive mainframe clusters;
- Level 3700 models will offer unprecedented total performance. Configurable with thousands of processors, they will support the most demanding business applications.

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"Our new family of general purpose computers meets customers' needs for flexibility. It does this through built-in compatibility and performance. We call this scalability. Scalable compatibility and scalable performance are the common threads that run through the seven levels of this powerful family of computers," said Keville.

According to Fleet, the NCR System 3000 achieves these attributes through NCR's pioneering work in open systems, parallel architectures, microprocessor technologies and Application-Specific Integrated circuits (ASICs) along with the contributions from key industry alliances. The result is NCR System 3000 features including:

- A common Intel Corp. microprocessor-based instruction set that provides object-level compatibility;
- Use of industry standard operating systems - UNIX V.4, SCO UNIX, OS/2 and MS DOS - that offer access to more than 35,000 software packages;
- Support of industry-standard interfaces such as the Small Computer System Interface (SCSI) and Micro Channel Architecture (MCA). This provides compatibility with SCSI-based input/output devices, such as magnetic or optical disks, CD-ROMS, tapes, printers and MCA compatible add-in controllers across the entire family;
- Use of technically-advanced mass storage subsystems based on disk-array technology;

A system architecture that takes advantage of three powerful computing designs - uniprocessor, tightly-coupled multiprocessors, and loosely-coupled parallel processing.

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NCR 3300 MODELS

NCR released for sale three uniprocessor models; the NCR, 3320, 3340, and 3345. Each functions as a fully-configurable, high-performance workstation as well as an entry-level workgroup server. Scalable power is achieved through the use of an Intel 386sx 20MHz, or a 486 25 MHz or 33MHz processor providing from 7.5 to 27 MIPS. Memory options range from 2 to 64 megabytes with internal disk storage of up to 680 megabytes. A 4-slot, 20 megabytes-per-second MCA I/O bus is standard and supports up to 32 direct connections or 64 Local Area Network-based (LAN) connections. The Systems range in price from £3,000 to £36,000 and all models are available for immediate delivery.

NCR 3400 MODELS

Two models were released in the Level 3400. The NCR 3445 is a powerful uniprocessor server based on an Intel 486 33 MHz microprocessor that provides 27 MIPS of compute power. This model features memory options of four to 64 Megabytes, SCSI up to 5.0 megabytes per second and internal disk storage options of up to 3.3 gigabytes. A processor/memory bus, with a bandwidth of 176 megabytes per second and a seven-slot, 20 megabytes-per-second MCA I/O bus are featured. The NCR 3445 can support up to 128 connections in any combination of direct or LAN attachments. The NCR 3445 has a price range of from £12,000 to £50,000 and is available for immediate delivery.

The NCR 3450 is a new entry-level, multiprocessor server operating under the NCR UNIX V.4 multiprocessing operating system. Scalable performance results from the use of one to four Intel 486 50 MHz microprocessors providing from 40 to 160 MIPS. The model offers memory options of 4 to 256 megabytes, SCSI up to 10 megabytes per second, internal and external disk storage

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options of up to 6.0 gigabytes and 50 gigabytes respectively including an arrayed disk option. An 8-slot 80 megabytes per second MCA I/O bus and dual 32-bit processor/memory buses, with a combined bandwidth of 200 megabytes per second, support up to 256 connections in any combination of direct or LAN attachments. The model has a price range of £20,000 to £125,000. Initial customer deliveries beginning in the second quarter of 1991.

NCR 3550 MODEL

The most powerful of the six models released today is the new NCR 3550, a symmetric, multiprocessor, "mainframe class" computer system. The NCR 3550 utilises the new NCR UNIX V.4 multiprocessor operating system. Incremental performance results from use of two to eight Intel 486 50 MHz microprocessors providing 80 to 320 MIPS. Memory options range from 16 to 256 megabytes with internal disk storage up to 13 gigabytes and external disk array capacities of up to 50 gigabytes. Two eight-slot, 80 megabyte MCA buses provide an aggregate throughput of 160 megabytes per second and dual 64-bit processor/memory buses result in a combined bandwidth of up to 400 megabytes per second. The system can support more than 1,000 direct or LAN connections. Prices range from £63,000 to £500,000 with first customer deliveries scheduled for the second quarter of 1991.

The company also announced details of plans for future products in levels 3100, 3200, 3600 and 3700 which span a power range of from 7.5 MIPS to more than 100,000 MIPS.

NCR develops, manufactures, markets and supports business information processing systems for world-wide markets.

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UNIX is a registered trademark of UNIX System Laboratories, Inc. SCO is a registered trademark of The Santa Cruz operations, Inc. Micro Channel Architecture is a registered trademark of IBM corporation. MS DOS is a registered trademark of Microsoft Corporation.

NCR SYSTEM 3000 OPERATING SYSTEMS

	3100	3200	3300	3400	3500	3600	3700
UNIX V.4		*	*	*	*	*	*
SCO UNIX		*	*	*			
OS/2	*	*	*	*			
DOS	*	*	*				